Situation of Storing and Treatment of Accumulated Water including Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station

(27th Release)

December 28, 2011 Tokyo Electric Power Company

1. Introduction

This document is to report the following matters in accordance with the instruction of "Installment of treatment facility and storing facility of water including highly concentrated radioactive materials at Fukushima Daiichi Nuclear Power Station of the Tokyo Electric Power Company (Instruction) "(NISA No. 6, June 8, 2011), dated on June 9.

<Instruction>

TEPCO should report to NISA the situation of storing and treatment of the contaminated water in the Power Station and future forecast based upon the current situation have to be reported to NISA as soon as the treatment facility starts its operation. Also, subsequently, continued report has to be submitted to NISA once a week until the treatment of the accumulated water in the Centralized Radiation Waste Treatment Facility is completed.

2. Situation of storing and treatment of accumulated water in the building (actual record)

Stored amounts in each unit building (Unit 1 to 4 (including condensers and trenches)), and stored and treated amount in the Accumulated Water Storing Facility (including underpass area close to the High Temperature Incinerator Building), and other related data, as of December 27, are shown in the Attachment -1.

3. Forecast of storing and treatment

(1) Short term forecast

Water transfer is planned so that the levels of the accumulated water in Unit 1 and 2 and Unit 3 and 4 building will not exceed OP. 3,000, based on the stored amount in the Accumulated Water Storing Facility and the operating situation of the radioactive material treatment equipment. Water is transferred to the Process Main Building in principle, by securing enough capacity for stably accepting accumulated water in the Process Main Building.

Hence, priority for treatment is placed on the accumulated water in the Process Main Building in order to reserve the capacity for accepting the accumulated water in the building.

We assume stored amounts in each unit building (Unit 1 to 4 (including condenser and trench)),

and stored and treated amount in the Accumulated Water Storing Facility (including underpass area close to the High Temperature Incinerator Building), and other related data on January 3, as shown in Attachment -2.

(2) Middle term forecast

Regarding accumulated water in Unit 1 and 2 building and Unit 3 and 4 building, from the viewpoint of reducing the risks of discharging to the ocean and leaking into the groundwater, it is necessary to keep enough capacity for the accumulated water in the building until its level reaches OP. 4,000 and to keep the accumulated water level lower than the groundwater level.

Based on the view of limiting inflow of underwater to buildings and reducing the amount of emerged accumulated water, we are transferring accumulated water keeping its level in the building below OP. 3,000 considering water tank capacity.

We forecast stored amounts in each unit building (Unit 1 to 4 (including condensers and trenches)), and storing and treatment situations in the Accumulated Water Storing Facility (including underpass areas close to the High Temperature Incinerator Building) for 3 months, as shown in Attachment -3.

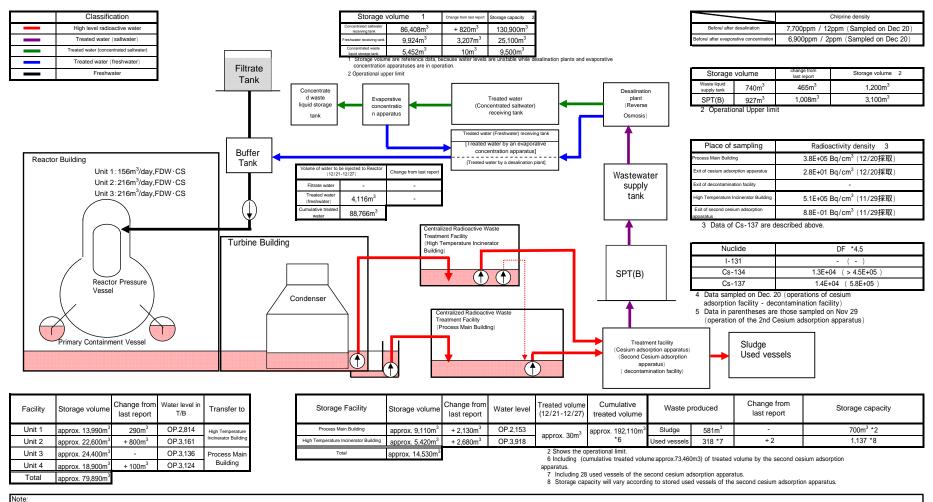
Stored amounts in each building and the water storage equipment are forecasted to be unchanged in case transfer and treatment were implemented as scheduled without rain.

Also, the water treated at the radioactive material treatment equipment can be stored in the middle and low level waste water tanks.

END

Storage and treatment of high level radioactive accumulated water (as of December 27, 2011)

Attachment-1



Last report as of Dec 20, 2011

• Transferred from Units 2 and 3 to Process Main Building & High Temperature Incinerator Building (Dec 21-23, 26-27 Transfer from Unit 2 to process main building, High Temperature Incinerator Building. Dec24-26 Transfer from Unit 3 to Process Main Building) From Dec 12: The second cesium adsorption apparatus suspended.

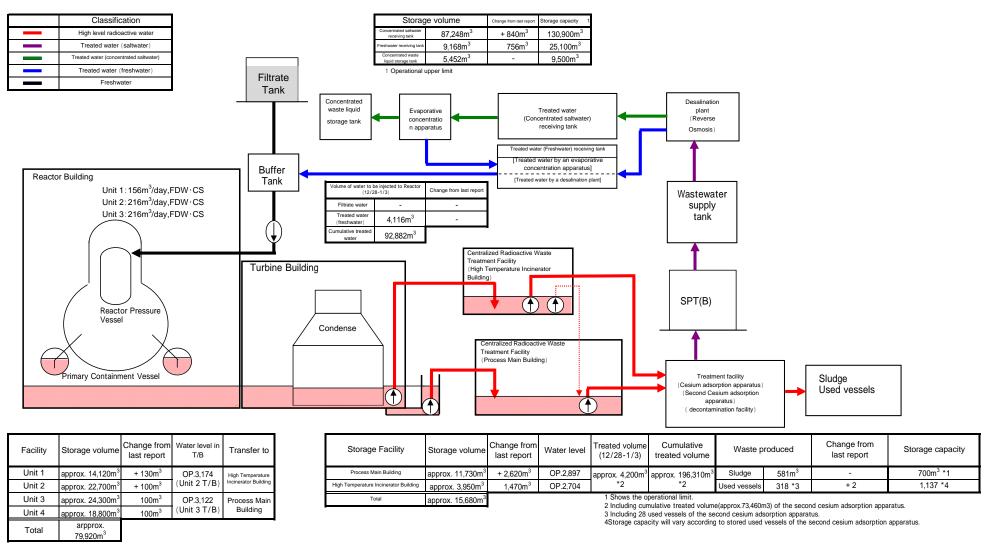
From Dec 20: The cesium adsorption apparatus suspented.

Dec 21: The operation of temporary storage for cesium absorption tower was started.

Dec 23: the water was transpferred from a trench between Process Main Building and High Temperature Incinerator Building to High Temperature Incinerator Building

From Dec 23 to 25, the water was transferred from Unit 1 turbine building to Unit 2 turbine building.

Storage and treatment of high level radioactive accumulated water (assumed situation as of January 3, 2012)



Note:

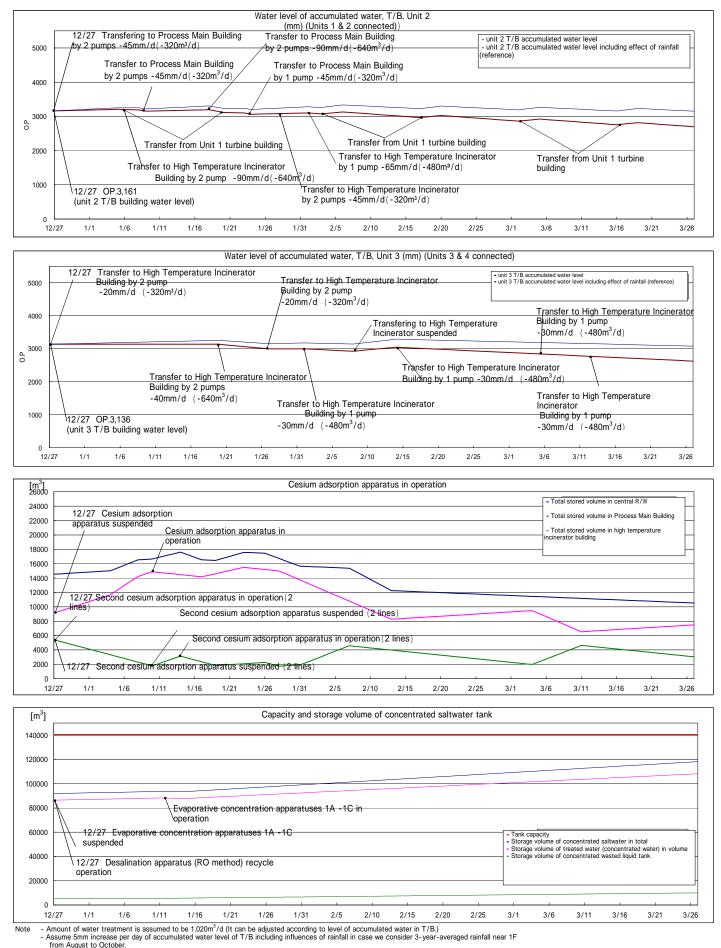
Water in Unit 2 and Unit 3 will be transferred to Process Main Building and High Temperature Incinerator Building. (We will start to transfer th water due to anti-icing operation and water-level control)

·The second cesium adsorption apparatus will be kept inactive. (Estimated operation rate is 50%)

The cesium adsorption apparatus will be stopped.

Attachment-2

Simulation result of the treatment of accumulated water in T/B, Units 1 to 4



- From mid December pump transfer amount will be changed in order to prevent hoses from freezing.

Attachment-3